## INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/002957

| A. CLASSIFICATION OF SUBJECT MATTER   |   |   |                             |  |  |  |  |  |  |
|---|---|---|-----------------------------|--|--|--|--|--|--|
| IPC7 H01Q 13/00   |   |   |                             |  |  |  |  |  |  |
| According to International Patent Classification (IPC) or to both national classification and IPC                             |   |   |                             |  |  |  |  |  |  |
| B. FIELDS SEARCHED  |   |   |                             |  |  |  |  |  |  |
| Minimum documentation searched (classification system followed by classification symbols)                                     |   |   |                             |  |  |  |  |  |  |
| IPC 7 H01Q  |   |   |                             |  |  |  |  |  |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched |   |   |                             |  |  |  |  |  |  |
| KR, JP: IPC as above  |   |   |                             |  |  |  |  |  |  |
|   |   |   |                             |  |  |  |  |  |  |
| Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) |   |   |                             |  |  |  |  |  |  |
| KIPONET, PAJ, USPAT, USAPP, FPD   |   |   |                             |  |  |  |  |  |  |
|   |   |   |                             |  |  |  |  |  |  |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT  |   |   |                             |  |  |  |  |  |  |
| Category*   | Citation of document, with indication, where app  | propriate, of the relevant passages   | Relevant to claim No.       |  |  |  |  |  |  |
| A   | JP 2001-156536A (MATSUSHITA ELECTRIC IND  | CO LTD) 8 Jun 2001  | 1                           |  |  |  |  |  |  |
|   | See the whole document  |   |                             |  |  |  |  |  |  |
| A   | JP 01238305A (MITSUUBISHI ELECTRIC CORP)  | 22 Sep 1989   | 1                           |  |  |  |  |  |  |
|   | See the whole document  |   |                             |  |  |  |  |  |  |
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| Further   | documents are listed in the continuation of Box C.  | See patent family annex.  |                             |  |  |  |  |  |  |
| * Special ca  | tegories of cited documents:  | "T" later document published after the internation  | nal filing date or priority |  |  |  |  |  |  |
|   | defining the general state of the art which is not considered rticular relevance                            | date and not in conflict with the application the principle or theory underlying the inven- | n but cited to understand   |  |  |  |  |  |  |
| "E" earlier app   | dication or patent but published on or after the international  | · "X" document of particular relevance; the claime  | d invention cannot be       |  |  |  |  |  |  |
| filing date "L" document  | late considered novel or cannot be considered to involve an inventive step when the document is taken alone |   |                             |  |  |  |  |  |  |
|   | stablish the publication date of citation or other ason (as specified)                                      | "Y" document of particular relevance; the claims  |                             |  |  |  |  |  |  |
| "O" document  |   |   |                             |  |  |  |  |  |  |
| "P" document  | published prior to the international filing date but later  | being obvious to a person skilled in the art "&" document member of the same patent family  | :                           |  |  |  |  |  |  |
| than the priority date claimed  |   |   |                             |  |  |  |  |  |  |
| Date of the acti  | ual completion of the international search  | Date of mailing of the international search report  |                             |  |  |  |  |  |  |
| 30 MARCH 2005 (30.03.2005)  |   | 30 MARCH 2005 (30.03.2005)  |                             |  |  |  |  |  |  |
| Name and mai  | iling address of the ISA/KR   | Authorized officer  |                             |  |  |  |  |  |  |
| 9   | Korean Intellectual Property Office<br>220 Dunsan-dong, Seo-gu, Daejeon 302-701,<br>Republic of Korea       | JEON, Ki Eock   |                             |  |  |  |  |  |  |
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/002957

| Box No. 1 Nucleo                   | otide and/or amino acid sequen   | ce(s) (Continuatio                         | n of item 1.b of   | the first sheet) |   |                   |
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| With regard to a invention, the in | any nucleotide and/or amino acio<br>nternational scarch was carried o  | I sequence disclose<br>ut on the basis of: | d in the internati | onal applicatior | and necessary to the c                  | laimed            |
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|                                    | ined in the international applicat                                     |  | tau waa dabla Gamu | _                |   |                   |
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| or furnish                         | on, in the case that more than one hed, the required statements that   | the information in                         | he subsequent o    | r additional cop | ies is identical to that i              | en filed<br>n the |
| application                        | on as filed or does not go beyond                                      | the application as                         | filed, as appropr  | iate, were furni | shed.                                   |                   |
| 3. Additional con                  | nments:  |  |                    |                  | • |                   |
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